

IN THE CLAIMS:

1. (Previously Presented) A device for treating pneumothorax, tension pneumothorax, and/or hemothorax, comprising:
 - a trocar obturator unit comprising a stylet with a distal end and a proximal end, wherein the proximal end of said stylet has a point for puncturing a body cavity, and wherein a stopper is coupled to said stylet distally of said point;
 - a catheter assembly comprising
 - a tube dimensioned to receive said stylet, said tube having a lumen, an open ended distal end portion, and at least one fluid opening through the sidewall, and
 - a hub coupled with said open-ended distal end portion, wherein a lumen of said hub is continuous with the lumen of said tube and dimensioned to receive at least a portion of said stopper to position the stylet relative to the catheter assembly and seal the lumens of said tube;
 - a one-way valve, wherein one end of said one-way valve is sealed to at least a portion of said hub, said one-way valve being configured such that the lumen of the one-way valve is continuous with the lumens of said tube and said hub; and
 - an at least one adhesively coated tab attached to said hub and configured to sealingly secure the hub of said device to a skin of a body cavity.
2. (Original) The device of Claim 1, wherein the point on the proximal end of said stylet extends beyond the proximal end portion of said tube when said stylet is inserted into said catheter assembly.



3. (Original) The device of Claim 1, wherein the diameter of said stopper is larger than the diameter of the lumen of said one-way valve.

4. (Original) The device of Claim 1, wherein at least a portion of said stopper is removably retainable in at least a portion of the hub.

5. (Original) The device of Claim 1, wherein at least one of the exterior of said stopper or the interior of said one-way valve is coated with a lubricant.

6. (Original) The device of Claim 1, wherein said trocar obturator unit further comprises a pull-handle attached to said stopper.

7. (Currently Amended) The device of Claim 61, wherein said pull-handle is a ring.

8 (Currently Amended) The device of Claim 61, wherein said pull-handle is a tab

9. (Original) The device of Claim 1, wherein an annular recess is formed in the outside wall of said hub.

10. (Original) The device of Claim 1, wherein said one-way valve is secured to said hub by a retaining ring positioned over said one-way valve within said recess.

11. (Previously Presented) The device of Claim 9 wherein said one-way valve is secured to said hub by at least one band unwindably positioned over said one-way valve within the recess of said hub, and wherein the at least one adhesively coated tab is attached to said at least one band for securing said device to a patient.

12. (Original) The device of Claim 11 wherein said at least one tab includes a removable covering for maintaining said adhesive during periods of non-use.

13. (Original) The device of Claim 1, further comprising a disk coupled to said catheter assembly for securing said trocar unit to a patient.

14. (Original) The device of Claim 6, wherein at least one of said stylet, catheter assembly, one-way valve and pull-handle are comprised of a radio-opaque material.

15. (Previously Presented) The device of Claim 1, wherein said tube includes a kink-resistant tube lumen wall.

16. (Previously Presented) The device of Claim 1, wherein said the kink-resistant lumen wall includes a first coiled monofilament polymer fiber.

17. (Cancelled)

18. (Original) The device of Claim 16, wherein the kink-resistant lumen wall includes a second coiled monofilament polymer fiber interwoven with the first coiled monofilament polymer fiber.

19. (Original) The device of Claim 15 wherein the kink-resistant lumen wall includes a a first coiled monofilament metallic fiber.

20. (Original) The device of Claim 16, wherein the kink-resistant lumen wall includes a second coiled monofilament metallic fiber interwoven with the first coiled monofilament metallic fiber

21. (Original) A catheter assembly for venting fluid including gasses from within a body cavity having a skin, the catheter assembly comprising:

a tube configured to sealingly engage a stylet, the tube having a tube lumen, a tube distal end defining a tube distal port, and a tube proximal end defining a tube proximal port;



a hub defining a hub lumen, the hub having a hub proximal face, a hub distal face, and the hub proximal face being sealingly attached to the tube at the tube distal port, the hub lumen configured to form a passage for fluid continuous with the tube lumen and dimensioned to receive at least a portion of a stopper on a stylet, in sealing engagement with the tube lumen;

at least one adhesive film-coated tab configured to draw and hold the proximal face of the hub in sealing engagement with the skin; and

a one-way valve, in sealing engagement with the hub distal face, the one-way valve being configured such that a one-way valve lumen is continuous the passage the hub lumen and the tube lumen form.

22. (Original) The catheter assembly of Claim 21, the assembly further comprising:

a trocar obturator unit including the stylet having a stylet distal end and a stylet proximal end, wherein the proximal end of said stylet having a point for puncturing a body cavity, and wherein a stopper is coupled to said stylet distally of said point, the stopper being configured to position the stylet relative to the catheter assembly.

23. (Original) The catheter assembly of Claim 22, wherein the point is a suitable length to extend beyond the tube proximal port when the stylet is inserted into the tube to bring the stopper into engagement with the hub.

24. (Original) The catheter assembly of Claim 22, wherein the diameter of the stopper is larger than the diameter of the one-way valve lumen.

25. (Original) The catheter assembly of Claim 22, wherein the trocar obturator unit further includes a pull-handle attached to the stopper.



26. (Original) The catheter assembly of Claim 25, wherein the pull-handle includes a ring.
27. (Original) The catheter assembly of Claim 25, wherein the pull-handle includes a tab.
28. (Original) The catheter assembly of Claim 21, wherein the hub proximal face defines an annular recess.
29. (Original) The catheter assembly of Claim 21, wherein the adhesive film-coated tab includes an attachment means, the attachment means including at least one band.
30. (Original) The catheter assembly of Claim 29, the attachment means includes a disk coupled to the hub.
31. (Original) The catheter assembly of Claim 21, wherein said at least one tab includes a removable covering for maintaining said adhesive during periods of non-use.
32. (Original) The catheter assembly of Claim 21, wherein at least one of the group consisting of the stylet, the tube, the hub, the one-way valve, and the pull-handle comprise a radio-opaque material.
33. (Original) The catheter assembly of Claim 21, wherein the tube includes a kink-resistant tube lumen wall.
34. (Original) The catheter assembly of Claim 21, wherein said the kink-resistant lumen wall includes a first coiled monofilament fiber.
35. (Original) The catheter assembly of Claim 34, wherein the kink-resistant lumen wall includes a second coiled monofilament fiber interwoven with the first coiled monofilament polymer fiber.

36. (Original) The catheter assembly of Claim 34, wherein the fiber includes a polymer fiber.

37. (Original) The catheter assembly of Claim 34, wherein the fiber includes a metallic fiber.

38. (Original) The catheter assembly of Claim 37, wherein the metallic fiber includes stainless steel.


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BLACK LOWE & GRAHAM ^{PLLC}


701 Fifth Avenue, Suite 4800
Seattle, Washington 98104
206.381.3300 • F: 206.381.3301